

Results of contactless and non-invasive analysis: overview

Project: Digitization / Cataloguing of non-textual objects:
Description and Digitization of Precious Book Covers as Independent Works of Art.
Project-Period: 01.10.2014 - 30.09.2017

Shelfmark: Munich, Bayerische Staatsbibliothek, Cod.sanscr. 423

Analytical methods: X-Ray Fluorescence Spectroscopy (XRF): P. 2-8
Fourier-Transform Infrared-Spectroscopy (FTIR): P. 9-14

Contact: Institute of Conservation and Restoration (IBR)
of the Bayerische Staatsbibliothek, Munich

XRF-Analysis: Mapping of measurement points and spectra

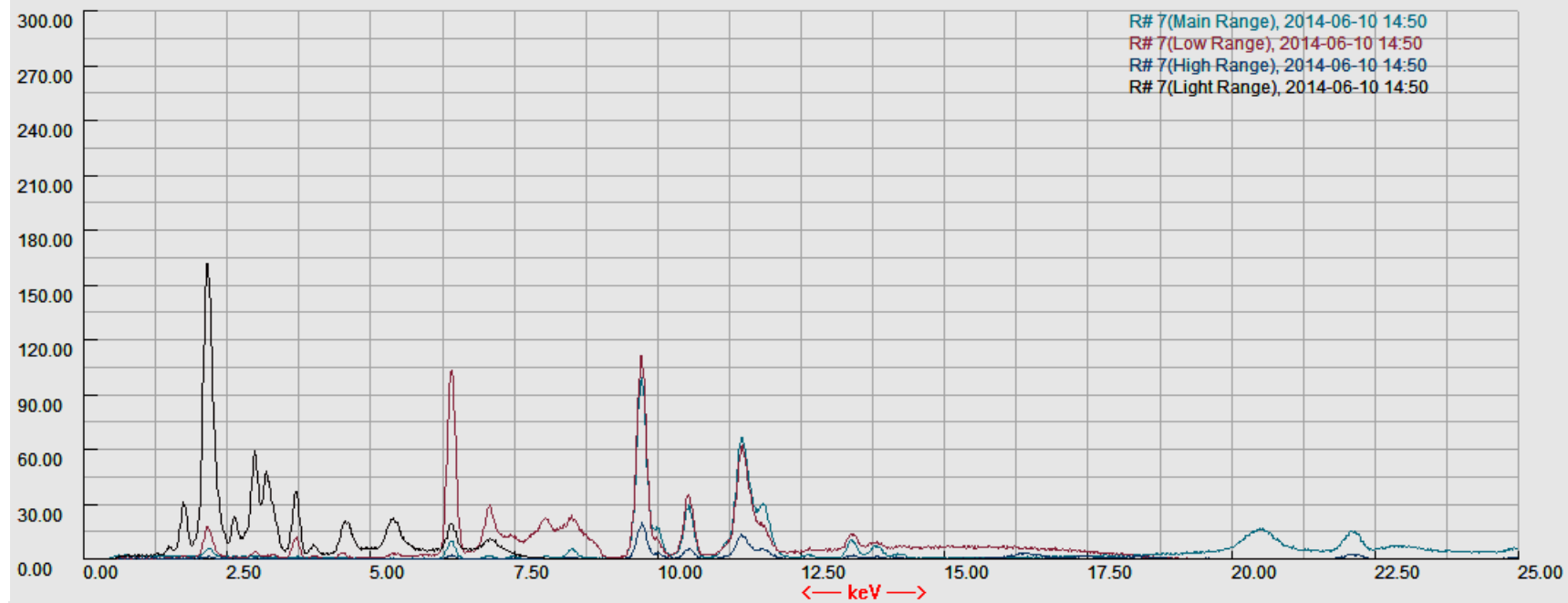
Scanning parameters

Instrument: NITON XL3t GOLD D+
Scanning mode: Mining (Cu, Zn)
Spectral resolution: 4 cm^{-1}
Scan duration: 150 s

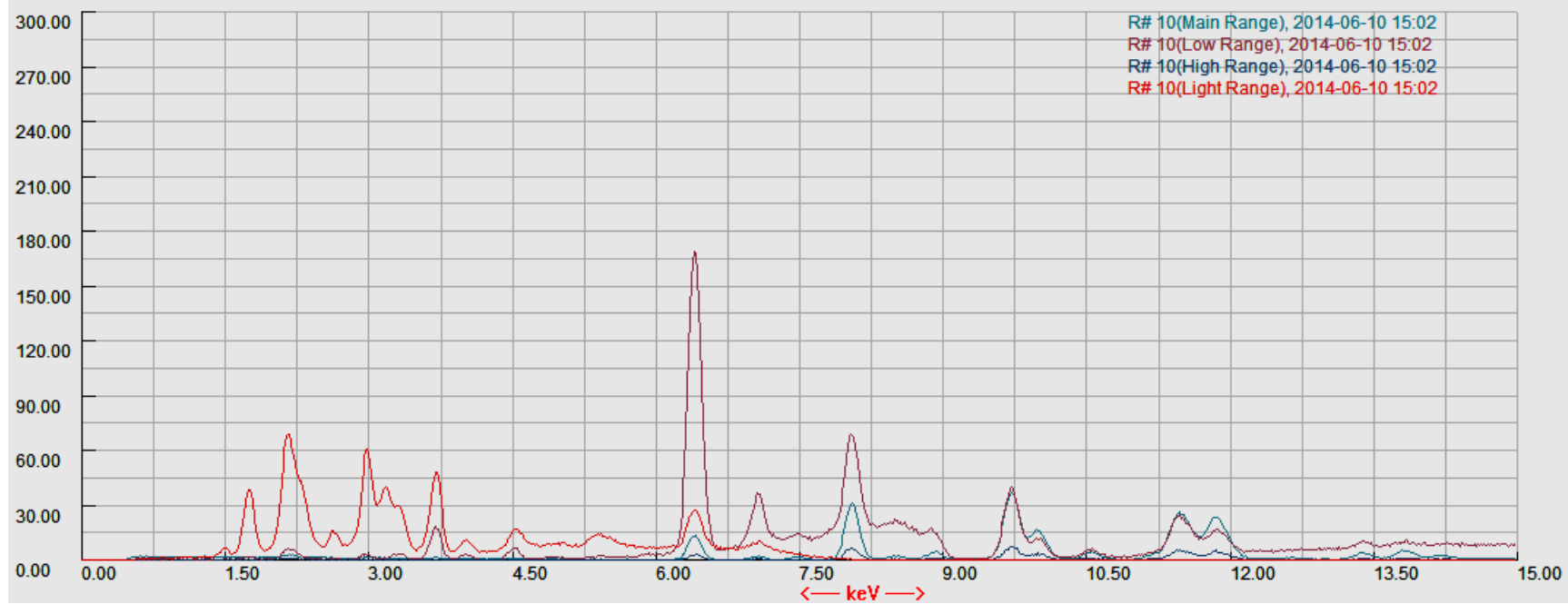
Spectra: #7,10,11,14, 16, 19, 20, 23;
#2.1, 2.2, 2.4;
#3.1, 3.2, 3.7;
#4.1

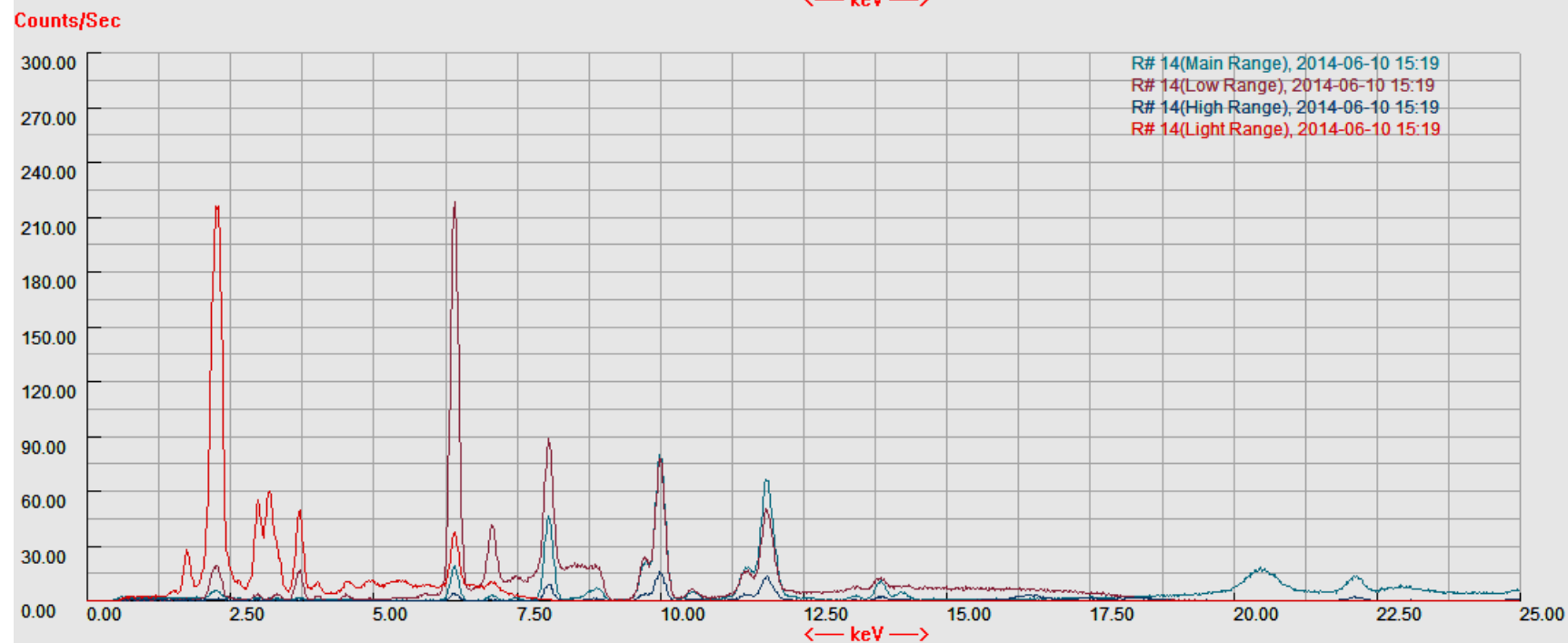
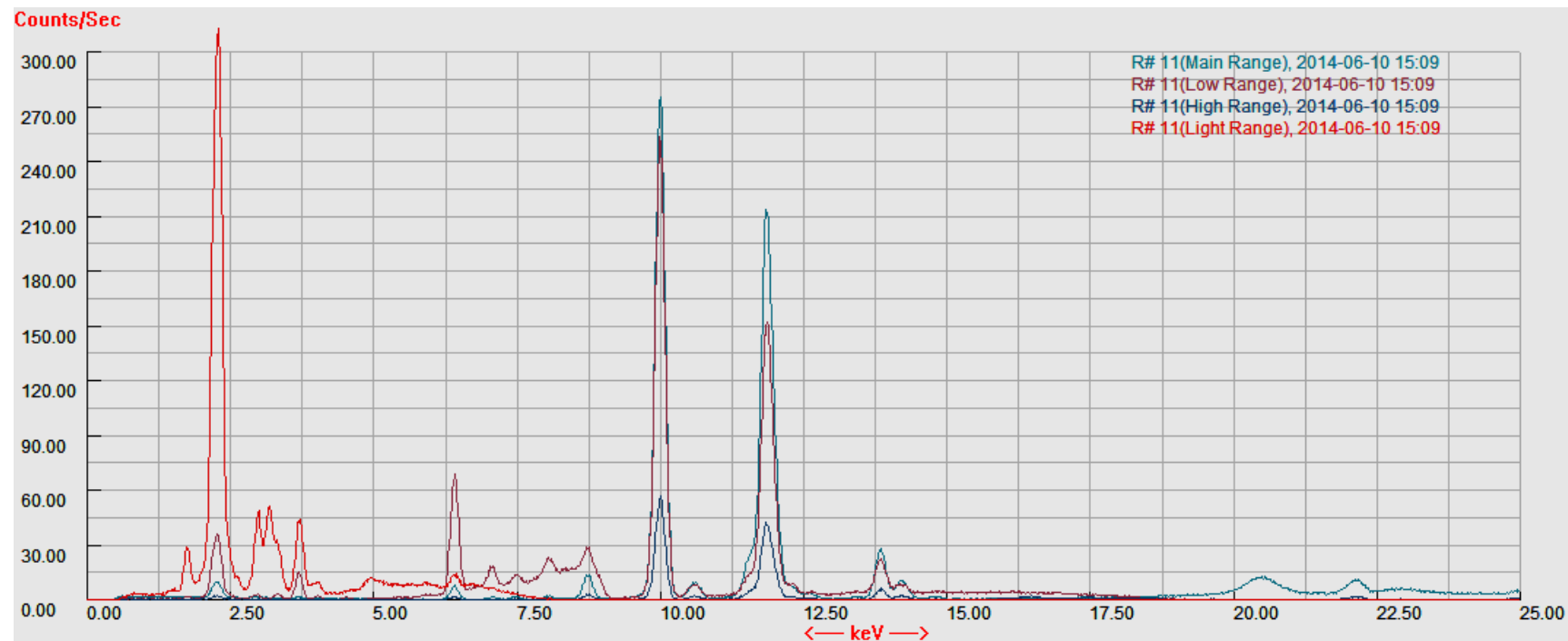


Counts/Sec

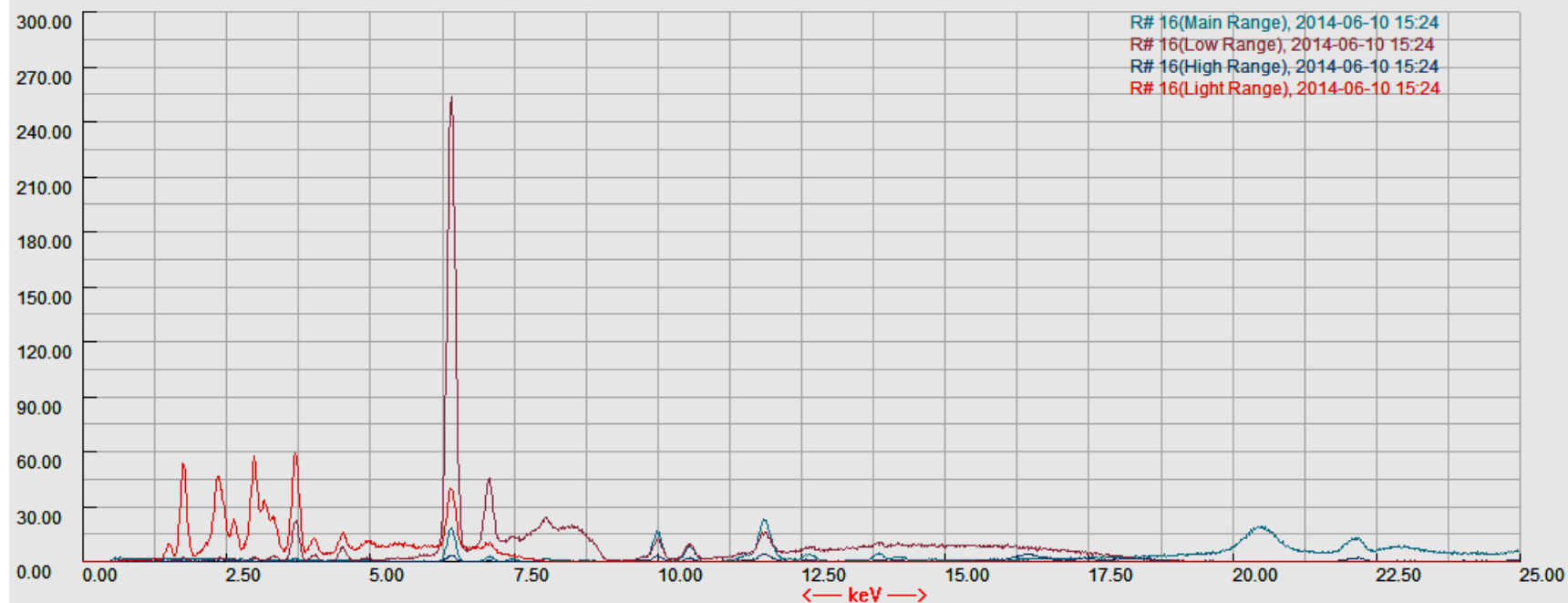


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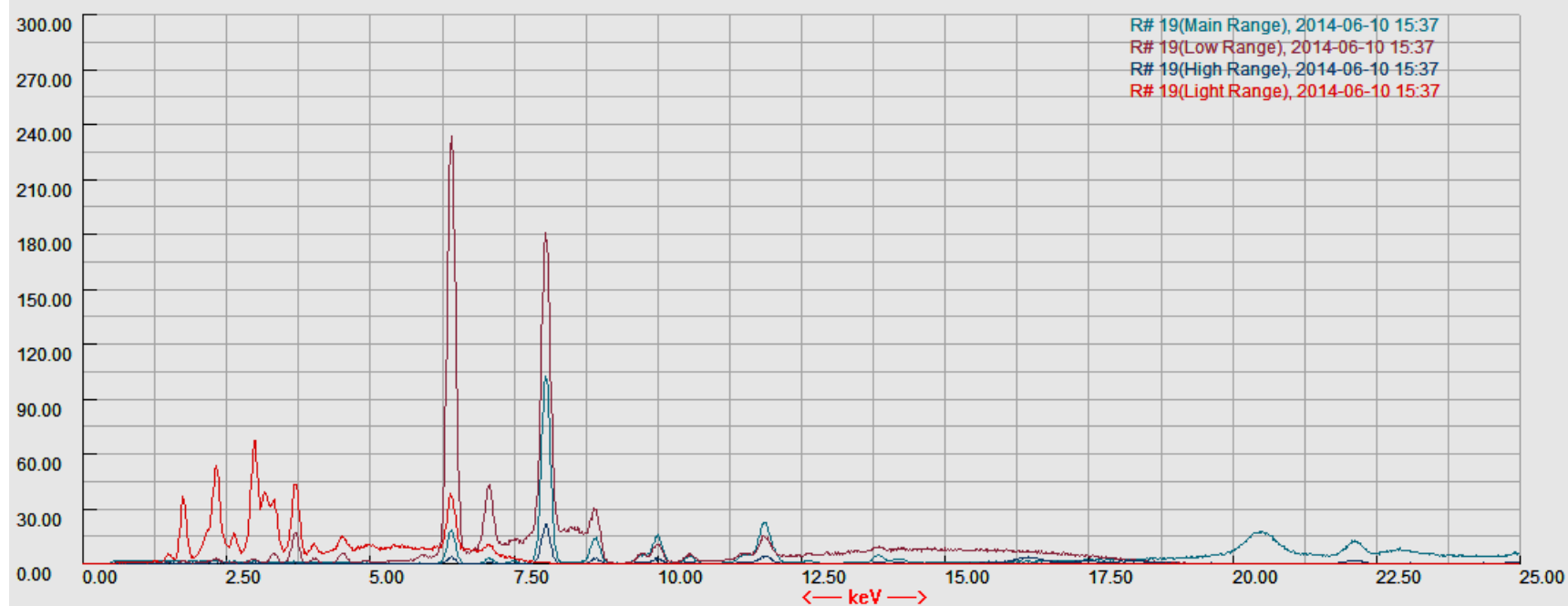




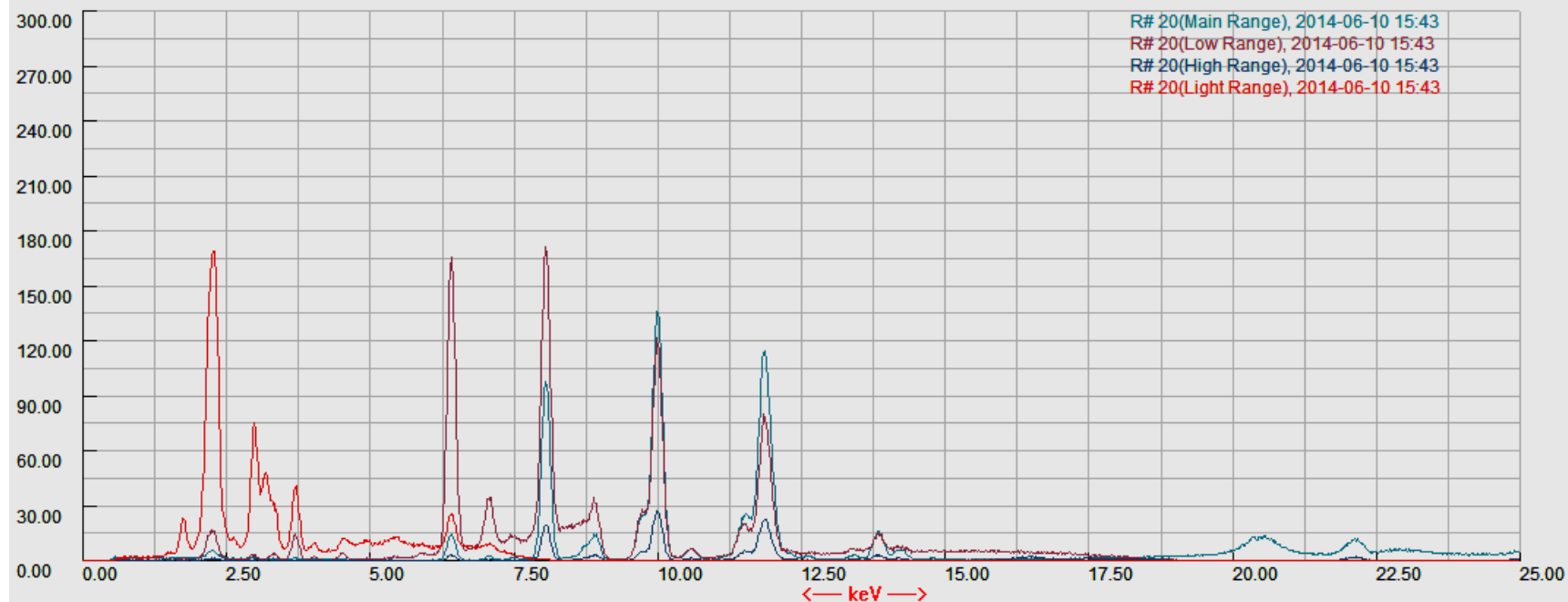
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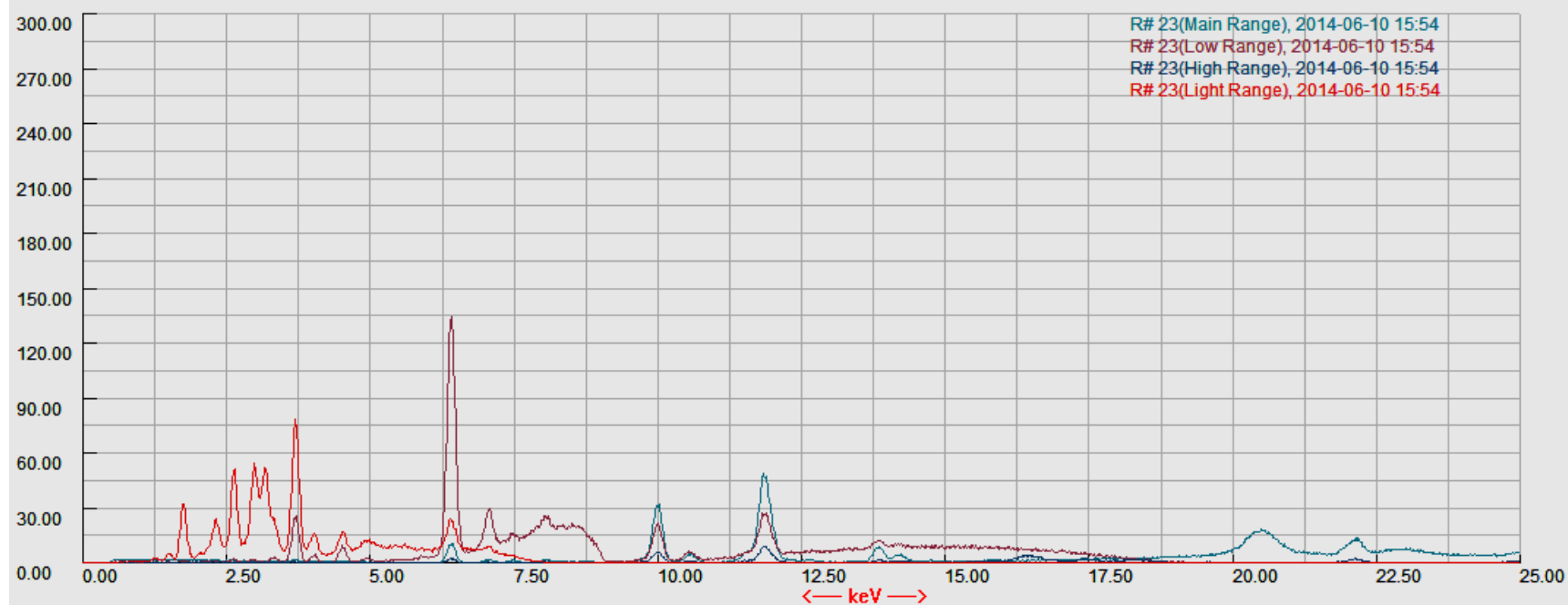
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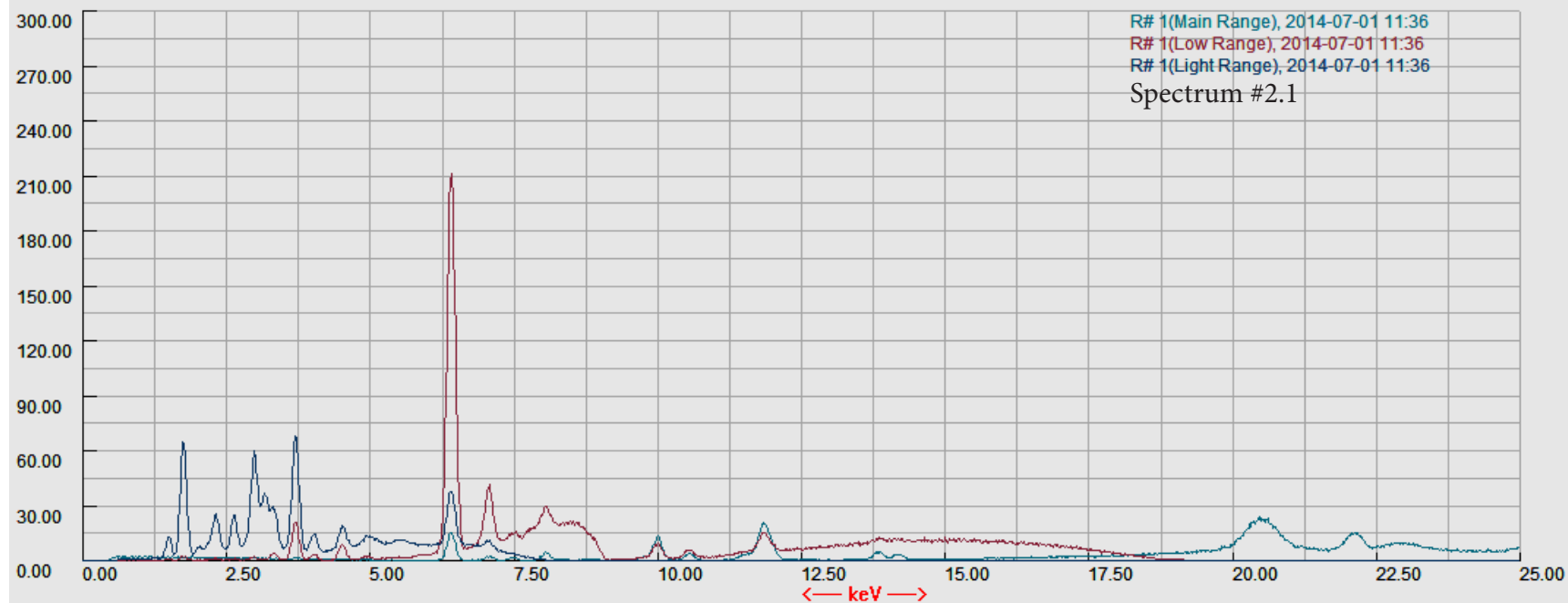
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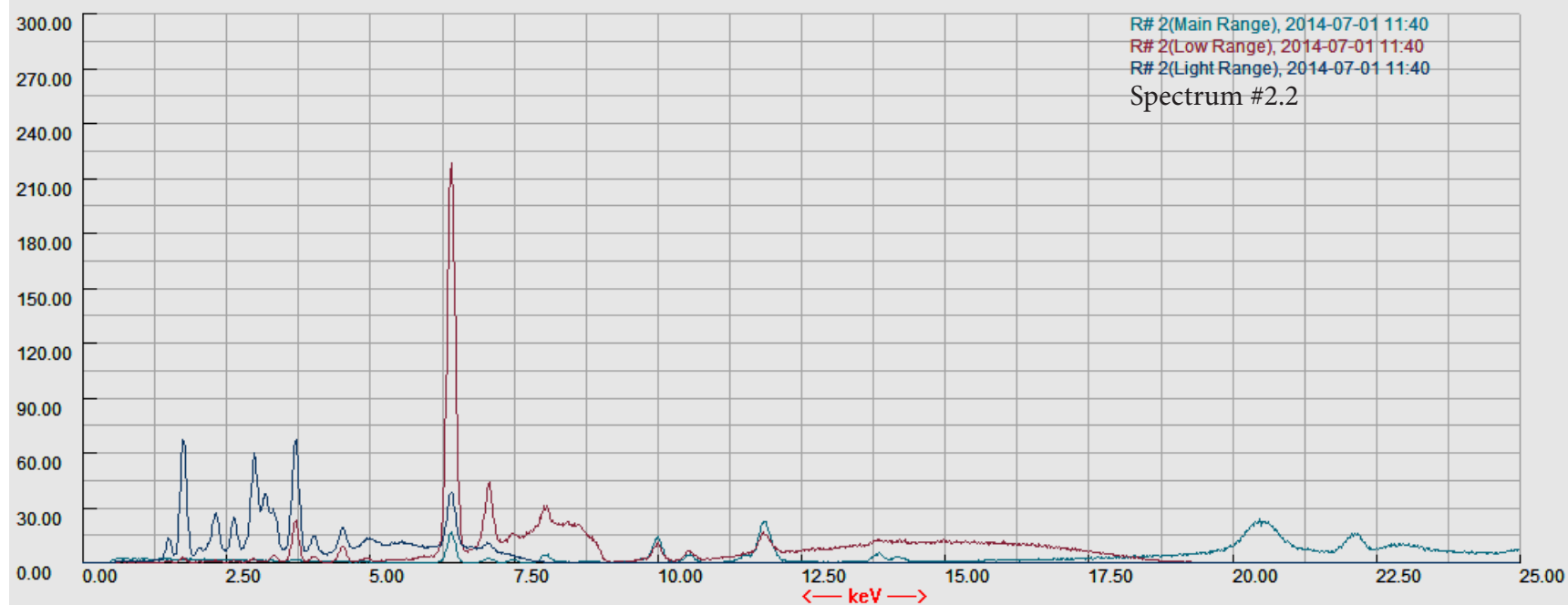
Counts/Sec



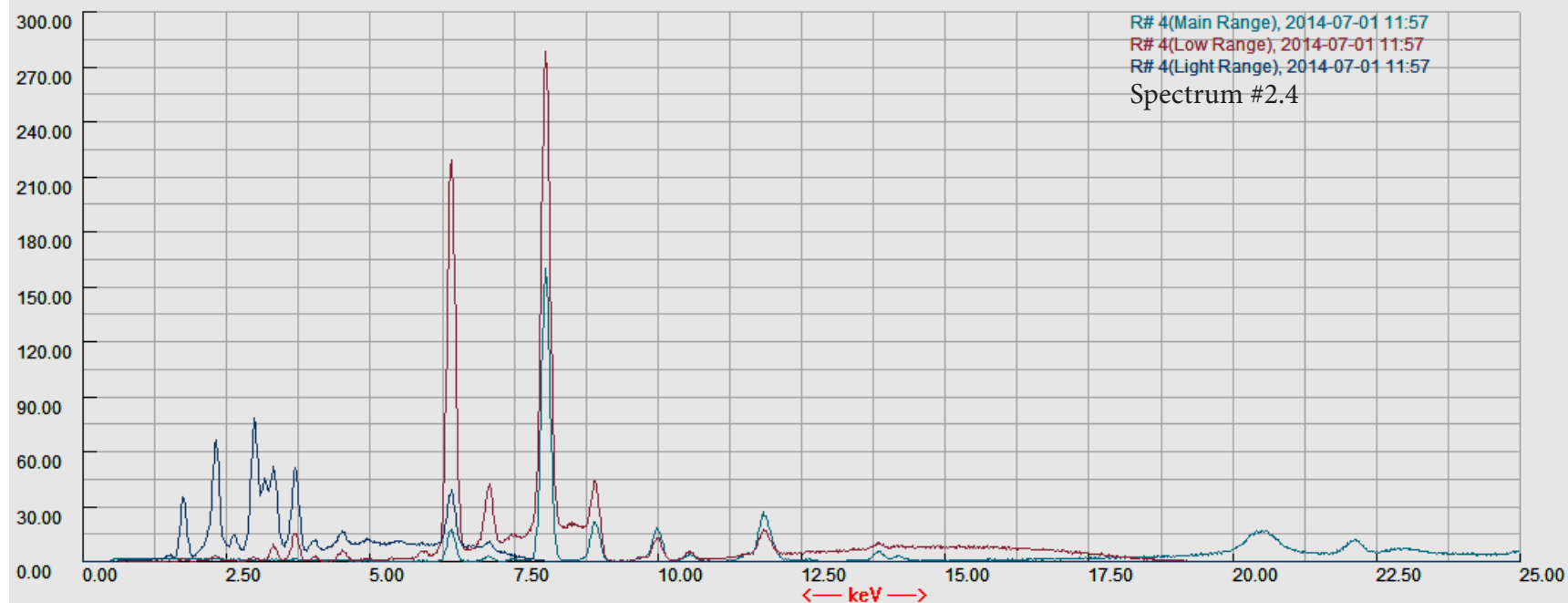
Counts/Sec



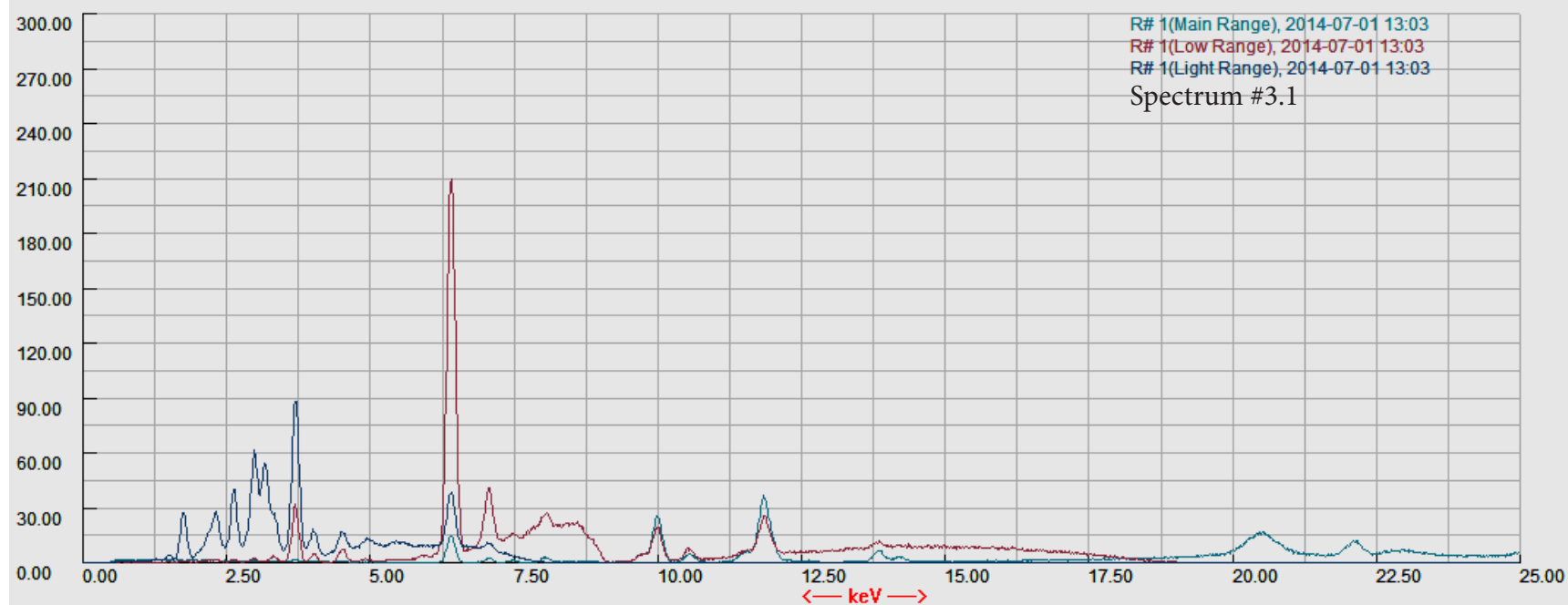
Counts/Sec



Counts/Sec



Counts/Sec



FTIR-Analysis: Mapping of measurement points and spectra

Scanning parameters

Instrument: BRUKER ALPHA
Scanning mode: FTIR external reflection mode
Spectral resolution: 4 cm^{-1}
Spectral range: $360\text{-}5400\text{ cm}^{-1}$
Scan duration: 240 scans

Spectra: sanscr_423_1a_1a ... sanscr_423_1a_1j
(filename description: signature_side a/b_number of scan)



